CONTENTS OF VOLUME XVII

Number 1, January, 1958

Introductory Remarks. Webb Haymaker, M.D., Washington, D. C. 1

Biological Effects of Ionizing Radiations. R. Rugh, M.D., New York, N. Y. 2

The Effects of Barium^{140}-Lanthanum^{140} (Gamma) Radiation on the Central Nervous System and Pituitary Gland of Macaque Monkeys. A Study of 67 Brains and Spinal Cords and 77 Pituitary Glands. W. Haymaker, M.D., Washington, D. C., G. Laqueur, M.D., Bethesda, Md., W. J. H. Nauta, M.D., Washington, D. C., Col. J. E. Pickering, USAF, Randolph Field, Texas, J. C. Sloper, M.D., London, England, and Capt. F. S. Vogel, USAF (MC), Austin, Texas 12

Response of Alkaline Glycerophosphatase in the Macaque Brain to Cobalt^{60} (Gamma) Irradiation. J. Cammermeyer, M.D., Bethesda, Md., and W. Haymaker, M.D., Washington, D. C. 58

Joint Report. Effects of Atomic Radiation on the Brain in Man. A Study of the Brains of 49 of Hiroshima and Nagasaki Casualties. H. Shiraki, M.D., Tokyo, Japan, Y. Uchimura, M.D., Tokyo, Japan, S. Matsuoka, M.D., Nagasaki, Japan, M. Miyake, M.D., Tokyo, Japan, S. Takeya, M.D., Fukuoka, Japan, C. Tamagawa, M.D., Hiroshima, Japan, K. Koyano, M.D., Nagasaki, Japan, S. Amano, M.D., Kyoto, Japan, M. Araki, M.D., Kyoto, Japan, W. W. Ayres, M.D., Washington, D. C., and W. Haymaker, M.D., Washington, D. C. 79

The Induction of Acute Morphological Changes in the Central Nervous System and Pituitary Body of Macaque Monkeys by Cobalt^{60} (Gamma) Radiation. F. S. Vogel, M.D., New York, N. Y., C. G. Hoak, M.D., Troy, Ohio, J. C. Sloper, M.D., London, England, and W. Haymaker, M.D., Washington, D. C. 138

The Late Effects of Tantalum^{182} Radiation on the Cerebral Cortex of Monkeys. O. T. Bailey, M.D., Indianapolis, Ind., F. C. Ingraham, M.D., and E. A. Berling, M.D., Boston, Mass. 151

The Process of Demyelination in the Central Nervous System. II. Mechanism of Demyelination and Necrosis of the Cerebral Centrum Incident to X-Radiation. C. B. Courville, M.D., and R. O. Myers, M.D., Los Angeles, Cal. 158

Discussion 174

Number 2, April, 1958

In Memoriam. M. T. Moore, M.D., Philadelphia, Pa. 183

A Tribute to My Father. N. William Winkelman, Jr., M.D., Philadelphia, Pa. 187

An Autoradiographic Demonstration of the Relative Vascularity of the Central Nervous System of the Cat with Iodine 131-Labeled Serum Albumin. C. F. Barlow, M.D., J. C. Schoolar, M.D., and L. J. Roth, M.D., Chicago, Ill. 191

5-Nucleotidase in Normal and Diseased Human Skeletal Muscle. E. B. Beckett, Ph.D., and G. H. Bourne, Ph.D., London, England 199

Progressive Deteriorating Diseases of Infancy. First Communication. C. E. Benda, M.D., Waverley, Mass., and J. C. Melchior, M.D., Copenhagen, Denmark 205

Study on the Reticulin Fibers of Brain Tumors. F. Bölönyi, M.D., Debrecen, Hungary 240

The Tuberous Sclerosis Complex. R. M. Cares, M.D., Kings Park, N. Y. 247

Some Observations on the Congenital Deformity of the Central Nervous System Known as the Arnold-Chiari Malformation. P. M. Daniel, M.D., and S. J. Strich, M.D., Oxford, England 255

Biochemistry in Routine Neuropathology. I. Quantitative Chemical Determinations in Formaldehyde Preserved Brains as an Aid in the Neuropathology of Demyelinating Conditions and Lipidoses. G. W. F. Edgar, M.D., Antwerp, Belgium 267

Biochemistry in Routine Neuropathology. II. Determination of Hexosamine in Chloroform-Methanol Extracts of Brain as a Diagnostic Procedure with Special References to the Quantitation of Gangliosides. G. Smits, Ph.D., Amsterdam, Holland, and G. W. F. Edgar, M.D., Antwerp, Belgium, and Utrecht, Holland 269

Studies on Multiple Sclerosis. I. Multiple Sclerosis Viewed as a "Chronic Disseminated Encephalomyelitis". II. Etio-Pathogenesis of Multiple Sclerosis (Infectious Allergic or Toxic Allergic). A. Ferraro, M.D., New York, N. Y. 278

Lesions in the Anterior Motor Horn Cells of Rats after Administration of Bis-β Cyanoethylamine (Study of a Nitrile Closely Related to the Lathyrus Factor). H. A. Hartmann, M.D., J. J. Lalich, M.D., and K. Akert, Ph.D., Madison, Wisconsin 268

Hypophyseal Duct Tumors (Craniopharyngiomas) Versus Adamantinomas. O. Hirsch, M.D., Boston, Mass. 305

Patho-Anatomic and Histopathologic Character of Lesions in the Central Nervous System in Man Following Anti-Rabic Treatment. E. Jones, M.D., Ann Arbor, Michigan 315

Cortical Blindness. L. Madow, M.D., Philadelphia, Pa. 324

Toluidine Blue Staining Reactions in Superior Cervical and Nodose Ganglia Following Stimulation and Drug Administration. C. A. Richins, Ph.D., and J. L. Hall, M.D., St. Louis, Mo. 333

A Clinico-Anatomic Study of Personality and Mood Disturbances Associated with Gliomas of the Cerebrum. H. E. Riggs, M.D., and C. Rupp, M.D., Philadelphia, Pa. 338

The Histologic Structure of the "Inclusion Bodies" of the Neurons in Pick's Disease. A Study with Silver Carbonate. K. Scharenberg, M.D., Ann Arbor, Mich. 346

Polioencephalomyelopathy Reminiscent of Creutzfeldt-Jakob's Syndrome. A Clinico-Pathologic Report of a Case. G. A. Schwarz, M.D., and L. J. Barrows, M.D., Philadelphia, Pa. 352

The Meningiomas of the Lateral Ventricles of the Brain. S. A. Tukanowicz, M.D., and F. C. Grant, M.D., Philadelphia, Pa. 367

Degeneration of the Brain Stem Reticular Formation, Other Parts of the Brain Stem and the Cerebellum. An Example of Heterogenous Systemic Degeneration of the Central Nervous System. W. J. C. Verhaart, M.D., Leyden, Holland 382

A Study of Fifty Intracranial Vascular Tumors Found Incidentally at Necropsy. R. J. White, M.D., M. W. Wood, M.D., and J. W. Kernohan, M.D., Rochester, Minn. 392

The In Vitro Action of Some Organic Acids on Myelin. F. Wolfgram, Ph.D., and A. S. Rose, M.D., Los Angeles, Cal. 399

Number 3, July, 1958

A Systematic Analysis of Intracranial Aneurysms from the Autopsy File of the Presbyterian Hospital, 1914 to 1956. E. M. Housepian, M.D., and J. L. Pool, M.D., New York, N. Y. 409

Aneurysm of the Vein of Galen. A. Hirano, M.D., and R. D. Terry, M.D., New York, N. Y. 424

Studies of White Matter I. Chemical Constitution and Respiration of Neuroglial and Myelin Enriched Fractions of White Matter. S. R. Korey, M.D., M. Orchen, and N. Brotz, New York, N. Y. 430

Studies in White Matter II. Encephalitogenic Activity of Myelin Rich Fraction and Neuroglial Concentrate of White Matter. L. C. Scheinberg, M.D., and S. R. Korey, M.D., New York, N. Y. 439

Diffuse Traumatic Degeneration of the Cerebral Gray Matter. J. Denst, M.D., T. W. Richey, Capt., M.C., USAF, and K. T. Neubuerger, M.D., Denver, Colorado ... 450
Hemiplegia in Early Life Associated with Thrombosis of the Sagittal Sinus and its Tributary Veins in One Hemisphere. A. Dekaban, M.D., and R. M. Norman, M.D., Bethesda, Maryland ... 461
Giant-Cell Arteritis Involving Small Meningeal and Intracerebral Vessels. H. M. McCormick, M.D., and K. T. Neubuerger, M.D., Denver, Colorado ... 471
Simultaneous Uptake of Radioactive Copper and Radioactive Potassium by Rat Brains. R. P. Spencer, Lt. M.C., USNR, and T. G. Mitchell, Lt. M.S.C., USN, Bethesda, Md. ... 479
Cerebral Arachnoid Cysts. S. P. Starkman, M.D., T. C. Brown, M.D., and E. A. Linell, M.D., Toronto, Canada ... 484
Gliomatous Polio- and Leucodystrophy in a Young Child. E. de Vries, M.D., Utrecht, Holland ... 501
A Simple Method for Preparation of Gross Brain Sections. P. H. Settlage, Ph.D., M.D., B. Bogumill, M.T., G. P. Bogumill, Ph.D., and H. D. Jameson, M.S., Madison, Wisc. ... 510
American Association of Neuropathologists, Annual Meeting, Atlantic City, N. J. ... 514
Book Reviews ... 536

Number 4, October, 1958

Neuropathology in Western Europe. Arthur Weil, M.D., New York, N. Y. ... 541
The Relationship between Edema, Blood-Brain-Barrier and Tissue Elements in a Local Brain Injury. I. Klatzo, M.D., A. Piraux, M.D., and E. J. Laskowski, M.D., Bethesda, Md. ... 548
Encephalitis Presumably of Viral Origin Associated with Massive Necrosis of the Temporal Lobe. C. L. Aszkanasy, M.D., M. I. Tom, M.D., and L. R. Zeldowicz, M.D., Vancouver, Canada ... 565
Importance of Ischemic Damage to Small Vessels in Experimental Cerebral Infarction. J. S. Meyer, M.D., Boston, Mass. ... 571
On the Nature of Pigment Granules in the Cells of the Locus Coeruleus and Substantia Nigra. J. H. Foley, M.D., and D. Baxter, M.D., Boston, Mass. ... 586
Intracranial Teratoma of a Newborn. Report of an Unusual Case. H. P. Chen, M.D., Iowa City, Iowa ... 599
Tumorforming Atypical Amyloidosis of the Choroid Plexus with Invasion of the Cerebral White Matter. P. Lampert, M.D., Pueblo, Colorado ... 604
Acid Fuchsin Convulsions and Electroshock in the Mouse. G. Clark, Ph.D., and D. S. Sarkaria, Ph.D., M.D., Buffalo, N. Y. ... 612
A Note on Lipase and Allergic Meningoencephalomyelitis. G. Clark, Ph.D., and A. J. Parker, Jr., M.A., Buffalo, N. Y. ... 620
The Non-Specific Lesions of Hallervorden-Spatz Disease. A Histochemical Study. W. Zeman, M.D., and D. G. Scarpelli, M.D., Columbus, Ohio ... 622
Persistent Carotid-Basilar Anastomosis. Report of a Case. J. Kepes, M.D., and J. W. Kernohan, M.D., Rochester, Minn. ... 631
The Morphology of Meningiomas. T. P. Morley, F.R.C.S., Toronto, Canada ... 635
Piloid Gliosis (A Histological Study). F. R. Grattarola, M.D., Turin, Italy ... 644
The Nervous System in Trichlorethylene. An Experimental Study. A. B. Baker, M.D., Minneapolis, Minn. ... 649
Spinal Cord Granuloma Due to Schistosoma Haematobium. Report of One Case. W. J. Pepler, M.D., and C. M. Lombard, M. Med., Pretoria, South Africa ... 656
Book Reviews ... 660
Index to Volume XVII ... 663